

SCREENING DEVICE AND METHODS OF SCREENING  
IMMUNOASSAY TESTS AND AGGLUTINATION TESTS

ABSTRACT OF THE DISCLOSURE

5     Immunoassay tests or agglutination tests run on samples of  
bodily fluid to detect the presence of particular compounds  
such as drugs in the body may be screened in the screening  
device. A test membrane is inserted into the screening  
10    device and illuminated. The reflected image is detected and  
the digitised data processed. For immunoassay tests, the  
digitised data is segmented and data for the test region is  
compared to that from the control region and the background  
regions to determine whether the test data exhibits any  
15    significant results. For agglutination tests, the digitised  
data is processed to determine the number and size of the  
areas of coagulation to determine whether the test data  
exhibits any significant results.

A swab for taking a bodily sample incorporates a run fluid  
capsule. Once an adequate sample of bodily fluid has been  
20    collected and the swab is placed in contact with the test  
membrane, the run fluid capsule is pierced by a spike  
provided on the swab, the run fluid mixes with the sample  
and the mixture is conveyed to the test membrane.  
Alternatively or in addition the swab has a main tube and a  
25    capillary tube. A run detector in the capillary tube  
detects when an adequate sample of bodily fluid has been  
taken.